POWER OF ATTORNEY BY ASSIGNEE

ARCHITECTURE HAVING A MATRIX-TRANSPOSE CAPABILITY, the specification of which filed on March 8, 2001 as Application Serial No. 09/802,020.

The Assignment accompanying this Power of Attorney has been reviewed by the undersigned. The undersigned certifies that to the best of the undersigned's knowledge and belief, title is in the Assignee.

Assignee hereby appoints the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Kenneth Olsen, Reg. No. 26,493 Timothy J. Crean, Reg. No. 37, 116 Alexander E. Silverman, Reg. No. 37,940 Anirma R. Gupta, Reg. No. 38,275 Sean P. Lewis, Reg. No. 42,798 Michael J. Schallop, Reg. No. 44,319 Bernice B. Chen, Reg. No. 42,403 Noreen A. Krall, Reg. No. 39,734 Richard J. Lutton, Reg. No. 39,756 Monica D. Ward, Reg. No. 40,696 Marc D. Foodman, Reg. No. 34, 110 Naren Chaganti, Reg. No. 44,602 Elaine Lee, Reg. No. 41,936 Hugh H. Matsubayashi, Reg. No. 43,779 Paul D. Sorkin, Reg. No. 39,039 Marilyn E. Glaubensklee, Reg. No. 35,521 Ramin Aghevli, Reg. No. 43,462 Andrew C. Chen, Reg. No. 43,544 Jeffrey L. Myers, Reg. No. 44,252 of SUN MICROSYSTEMS, INC. 901 San Antonio Road, Palo Alto, CA 94303

and

Practitioners at Customer Number 20350 Townsend and Townsend and Crew, LLP

By:

Send Correspondence to:
Thomas D. Franklin
TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, 8th Floor
San Francisco, CA 94111-3834

Direct Telephone Calls to: Thomas D. Franklin, Reg. No. 43,616 303-571-4000 facsimile - 303-571-4321 e-mail - TDFranklin@Townsend.com

SUN MICROSYSTEMS, INC.

Kenneth Olsen

Vice President, Intellectual Property

Date: July 12,2001

DE 7042192 vI

Attorney Docket No. 16747-015210US

PTO/SB/96 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

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STATEMENT UNDER	37 CFR 3.73(b)	
Applicant/Patent Owner: Saulsbury, et al.		
Application No./Patent No.: 09/802,020 File	d/Issue Date: March 8, 2001	
Entitled: PROCESSING ARCHITECTURE HAVING A MATRIX	-TRANSPOSE CAPABILITY	
Sun Microsystems, Inc. , a corporation	on	
(Name of Assignee) (Type of Assign etc.)	ee, e.g., corporation, partnership, university, government agency,	
states that it is:		
1.	or	
2. an assignee of an undivided part interest		
in the patent application/patent identified above by virtue of eith	er:	
A. An assignment from the inventor(s) of the patent applical recorded in the Patent and Trademark Office at Reel attached.	tion/patent identified above. The assignment was, Frame, or for which a copy thereof is	
OR		
B. A chain of title from the inventor(s), of the patent applicate shown below:	tion/patent identified above, to the current assignee as	
	Го :	
The document was recorded in the United States Pa		
Reel, Frame, or for which a copy there	to is allaction.	
	То :	
The document was recorded in the United States Parker Reel, Frame, or for which a copy there		
3. From:	Го :	
The document was recorded in the United States Pa		
Reel, Frame, or for which a copy there	eof is attached.	
Additional documents in the chain of title are listed of	on a supplemental sheet.	
Copies of assignments or other documents in the chain of t [NOTE: A separate copy (i.e., the original assignment document) must be submitted to Assignment Division in account assignment is to be recorded in the records of the USPTO.	ment or a true copy of the original cordance with 37 CFR Part 3, if the	
The undersigned (whose title is supplied below) is empowered	to sign this statement on behalf of the assignee.	
July 12,2001	Signature	
23.0	Kenneth Olsen	
	Typed or printed name	
	Vice President, Intellectual Property	
	Title	

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Attorney Docket No.: 16747-015210US

Client Reference No.: P4701 US

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Ashley Saulsbury, of 18488 Grizzly Rock Road, Los Altos, CA 95033; Daniel S. Rice, of 5838 Birch Ct., #F, Oakland, CA 94618; Michael W. Parkin, of 4277 Mackay Drive, Palo Alto, CA 94306; Nyles Nettleton, of 1368 Hacienda Court, Campbell, CA 95008; hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention:

PROCESSING ARCHITECTURE HAVING A

MATRIX-TRANSPOSE CAPABILITY

Date(s) of execution of Declaration:

Filing Date:

March 8, 2001

Application No.:

09/802,020; and

WHEREAS, Sun Microsystems, Inc., a corporation of the state of Delaware, located at 901 San Antonio Road, M/S UPAL1-521, Palo Alto, CA, 94303, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8th Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated. Dated: Daniel S. Rice Michael W. Parkin Dated: Nyles Nettleton



ASSIGNMENT OF PATENT APPLICATION

JOINT

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	IN TESTIMONY	WHEREOF, Assignors have signed their names on the dates indicated.
Dated: _	8/3/2001	Ashlen Saulsbury
Dated: _	8/24/2001	Daniel S. Rice
Dated:		Michael W. Parkin
Dated:		Nyles Nettleton

Attorney Docket No.: 16747-015210US Client Reference No.: P4701 US

ASSIGNMENT OF PATENT APPLICATION

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Dated: _	0606	Assignors have signed their names on the dates indicated. Ashley Saulsbury
Dated: _	<u></u>	Daniel S. Rice
Dated: _	9/17/2001	Michael W. Parkin
Dated: _	 .	Nyles Nettleton

ASSIGNMENT OF PATENT APPLICATION

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Dated: S/3/2000 Ashley Saulsbury

Dated: Dated: Michael W. Parkin

Dated: 8-24-2001

Dated: Nyles Nettleton